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(71)Applicant : MITSUBISHI CHEMICAL CORP

(72)Inventor : WATANABE MICHII
KOSHIKAWA TAKEO
MIYAUCHI HIROO
KUJIRA KATSUFUMI
IWANE HIROSHI

(54) ION EXCHANGE RESIN AND PREPARATION OF BISPHENOLS USING SAME AS CATALYST

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a modified highly acidic sulfonic acid type ion exchange resin useful as a catalyst for preparation of bisphenol A by condensation reaction of phenol and acetone with a high rate of conversion of acetone, high selectivity of 4,4'-bisphenol A and good stability and to prepare bisphenol using the ion exchange resin as a catalyst.

SOLUTION: A mercatoamine compd. represented by the formula (where each of R₁ and R₂ is 2-4C alkylene which may have 1 or 2C alkyl, 5-10C cycloalkyl or 6-15C aryl as a substituent) is ionic-bonded to a highly acidic sulfonic acid type ion exchange resin to obtain the objective modified highly acidic sulfonic acid type ion exchange resin. Phenols and ketones are condensed in the presence of the modified highly acidic sulfonic acid type ion exchange resin to prepare the objective bisphenols.

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